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Please find below and/or attached an Office communication concerning this application or proceeding.



## **DETAILED ACTION**

### ***Claim Status***

1. The application has been examined and claims 1-45 are rejected as detailed below and are pending in this office action.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-10, 17,18,25-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Pub No: 2003/0033288 to Shanahan et al (hereinafter Shanahan).

#### **Claim 1.**

Shanahan discloses:

A method for providing web-based electronic research and presentation functions via a document creation application, comprising:

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scanning an active document on a computer device operable for identifying relevant keywords [retrieves information as the user works on the computer; identify entities (keywords), See Shanahan paragraphs 0008,0009, 0131];

searching at least one database for reference materials relating to said relevant keywords [associate each entity (keyword) with data from database, See Shanahan paragraph 0132, 0135];

automatically displaying relevant reference materials on said computer device [are displayed in a popup window; annotate document content depending on display screen, See Shanahan paragraph 0285, 0189, 0120, 0339, Fig 63];

converting said reference materials if said reference materials are in a different from a format used in creating said active document [synthesizing (converting) into format useful to the user; appropriate formatting; using the format of original document content, See Shanahan paragraph 0139; 0503; 0525] and

displaying said reference materials on said computer device [results are display in a window, paragraph 0219];

wherein said active document includes data currently being entered or edited by a user on said computer device [document service request while user works on document, See Shanahan paragraph 0138].

## Claim 2.

Shanahan discloses the elements of claim 1 as above and further it discloses prompting said user to select all or a portion of said reference materials [user may be

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prompted to select from a displayed list of alternatives, or citations, See Shanahan paragraph 0340, 0463 line 8-10];

if selected, formatting said all or a portion of said reference materials [synthesizing (converting) into format useful to the user; appropriate formatting; using the format of original document content, See Shanahan paragraph 0139; 0503; 0525]; and entering said all or a portion of said reference materials into said active document [See Shanahan paragraph 0340, 0342, 0344].

Claim 3.

Shanahan discloses the elements of claim 1 as above and further it discloses scanning an active document on a computer device operable for identifying relevant keywords is performed by an intelligent search agent, said method including [intelligent agent, Shanahan paragraph 0007]:

scanning text of an active page for said active document for at least one of:

frequently appearing terms [terms appearing a number of times, See Shanahan paragraph 0307, Fig 28];

frequently appearing phrases [See Shanahan paragraph 0307, Fig 28]; and

specific terms requested by said user [user decided which term or entities to enrich, See Shanahan paragraph 0294, 0295, 0298];

Claim 4.

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Shanahan discloses the elements of claim 1 as above and further it discloses scanning an active document on a computer device operable for identifying relevant keywords is performed by an intelligent search agent, said method including: scanning entire text of said active document for at least one of [OCR, scan, See Shanahan paragraph 0201, 0468, 0495]; frequently appearing terms [terms appearing a number of times, See Shanahan paragraph 0307, Fig 28]; frequently appearing phrases [See Shanahan paragraph 0307, Fig 28]; and specific terms requested by said user [user decided which term or entities to enrich, See Shanahan paragraph 0294, 0295, 0298]; analyzing results in context with said entire text of said active document [information can be filtered, See Shanahan paragraph 0319]; determining which of said results are relevant based on said analyzing results in context and in accordance with rules prescribed by said intelligent agent [information can be filtered based on a Zipf's law; ranking, See Shanahan paragraph 0319, 0320]; and storing relevant results in a temporary storage location operable for performing said searching [See Shanahan paragraph 0180],.

#### Claim 5.

Shanahan discloses the elements of claim 1 as above and further it discloses searching at least one database for said reference materials relating to said relevant keywords includes searching at least one of [See Shanahan paragraph 0013]:

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a local database associated with said computer device [local database, See Shanahan paragraph 0450]; and

a remote database located in a network location external to said computer device [remote location, See Shanahan paragraph 0297, Fig 3].

Claim 6.

Shanahan discloses the elements of claim 1 as above and further it discloses displaying said reference materials on said computer device includes: intermittently flashing text of said reference materials on a computer screen of said computer device [Blinking, See Shanahan paragraph 0173].

Claim 7.

Shanahan discloses the elements of claim 1 as above and further it discloses displaying said reference materials on said computer device includes at least one of: displaying a Uniform Resource Locator associated with said reference materials on a computer screen of said computer device [URL shown, See Shanahan paragraph 0179, Fig 10]; and displaying a Uniform Resource Locator with a preview pane associated with said reference materials on a computer screen of said computer device [URL shown, See Shanahan paragraph 0179, Fig 10].

Claim 8.

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Shanahan discloses the elements of claim 1 as above and further it discloses displaying said reference materials on said computer device includes:  
displaying text of said reference materials on a computer screen of said computer device in response to a user highlighting a term or section of text within said active document [highlighting enrichment, See Shanahan paragraph 0318].

Claim 9.

Shanahan discloses the elements of claim 1 as above and further it discloses displaying said reference materials on said computer device includes performing at least one of:  
displaying images of said reference materials on a computer screen of said computer device in response to a user highlighting a term or section of text within said active document [when a text(s) are selected (highlighted) window a appears, See Shanahan paragraph 0579];  
displaying images in a preview pane of said reference materials on a computer screen of said computer device in response to a user highlighting a term or section of text within said active document [when a text(s) are selected (highlighted) window a appears, See Shanahan paragraph 0579, Fig 64,65].

Claim 10.

Shanahan discloses the elements of claim 1 as above and further it discloses displaying text of said reference materials on a projector screen via a presentation



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application executing on said computer device, said displaying text of said reference materials on a project screen performed in response to a user selecting said reference materials for display [display screen, Shanahan paragraph 0189];  
wherein said projector screen is in communication with said computer device [display screen of a device, Shanahan paragraph 0189, 0205].

Claim 17.

Shanahan discloses the elements of claim 1 as above and further it discloses comprising integrating process software for providing said web-based electronic research and presentation functions via a document creation application, said integrating comprising [integration with application, Shanahan paragraph 0522]:  
determining if said process software will execute on at least one server [Shanahan paragraph 0590, 0593];  
identifying an address of said at least one server [address, Shanahan paragraph 0226];  
checking said at least one server for operating systems, applications, and version numbers for validation with said process software, and identifying any missing software applications for said at least one server that are required for integration [Shanahan paragraph 0590];  
updating said at least one server with respect to any operating system and application that is not validated for said process software, and providing any of said missing software applications for said at least one server required for said integration [Shanahan paragraph 0590, 0226];

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identifying client addresses and checking client computers for operating systems, applications, and version numbers for validation with said process software, and identifying any software applications missing from said client computers that are required for integration [Shanahan paragraph 0590, 0226];  
updating said client computers with respect to any operating system and application that is not validated for said process software, and providing any missing software application for said client computers required for said integration Shanahan paragraph 0226]; and  
installing said process software on said client computers and said at least one server [Shanahan paragraph 0198].

Claim 18.

Shanahan discloses the elements of claim 1 as above and further it discloses sharing of process software for providing said web-based electronic research and presentation functions via a document creation application, said on demand sharing comprising [Shanahan paragraph 0154]:  
creating a transaction containing unique customer identification, requested service type, and service parameters[unique user identification number Shanahan paragraph 171];  
sending said transaction to at least one main server[transmit, server Shanahan paragraph 0181];

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querying said at least one main server about processing capacity associated with said at least one main server to help ensure availability of adequate resources for processing of said transaction [query, server Shanahan paragraph 0287]; and allocating additional processing capacity when additional capacity appears needed to process said transaction, said additional processing capacity being selected from the group of additional capacities consisting of central processing unit capacity, processor memory capacity, network bandwidth capacity, and storage capacity [Shanahan paragraph 0588].

Claim 25.

Shanahan discloses:

A system for providing web-based electronic research and presentation functions via a document creation application, comprising:

- a computer device in communication with at least one server over a communications network, said computer device executing [mobile device that communicates with the network; client server, See Shanahan paragraph 0198];
- a web browser application [web browser, Shanahan paragraph 0217]; and
- at least one document creation application [Shanahan paragraph 0462];
- a data repository in communication with said at least one server, said data repository storing reference materials [repository, Shanahan paragraph 0451];
- a content generation system comprising [document content generated, Shanahan paragraph 0199];

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a graphical user interface [Shanahan paragraph 0591];  
an intelligent search agent [information retrieval and syntactic or pattern matching techniques, Shanahan paragraph 0281]; and  
a document conversion tool [Converting the document content to text data, Shanahan paragraph 0245 and claim 19]; and  
an active document displayed on said computer device, said active document created by said at least one document creation application [document creation, Shanahan paragraph 0462].

Claim 26.

Shanahan discloses the elements of claim 25 as disclose and furthermore it disclose content generation system is executed by said computer device [document content generated, device, Shanahan paragraph 0199].

Claim 27.

Shanahan discloses the elements of claim 25 as disclose and furthermore it disclose content generation system is executed by said at least one server and made accessible to said computer device over said communications network [document content generated, device, server, Shanahan paragraph 0199].

Claim 28.

Shanahan discloses the elements of claim 25 as disclose and furthermore it disclose:

a projection screen in communication with said computer device, said projection screen displaying a presentation created via said at least one document creation application [display screen, Shanahan paragraph 0189]; wherein hypertext indicia displayed on said computer device and said project screen are selectable for including reference materials associated with said hypertext indicia into said presentation [hypertext, Shanahan paragraph 0239].

Claim 29.

Shanahan discloses the elements of claim 25 as disclose and furthermore it disclose intelligent search agent utilizes advanced pattern matching technology operable for identifying relevant keywords and searching reference materials [information retrieval and syntactic or pattern matching techniques, Shanahan paragraph 0281].

Claim 30.

Shanahan discloses the elements of claim 25 as disclose and furthermore it disclose graphical user interface displays search results relating to relevant keywords scanned within said active document, said search results comprising at least one of [graphical user interface, scan, document content (active document), Shanahan paragraph 0591, 0185]:

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text;

graphical data [graphics data, Shanahan paragraph 0126, 0522];

a Uniform Resource Locator associated with said search results [document references (e.g. URL) Shanahan paragraph 0141];

a video [Shanahan paragraph 0122]; and

a source of said reference materials [document references, Shanahan paragraph 0141];

wherein said search results are retrieved from at least one of:

a local database associated with said computer device [local database, Shanahan paragraph 0450]; and

a remote database located in a network location external to said computer device [remote location, See Shanahan paragraph 0297, Fig 3].

#### Claim 31.

Claim 31 is essentially the same as claim 1 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

#### Claim 32.

Claim 32, which further dependence on Claim 31 is essentially the same as claim 11 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

#### Claim 33.

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Claim 33, which further dependence on Claim 32 is essentially the same as claim 12 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 34.

Claim 34, which further dependence on Claim 32 is essentially the same as claim 13 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 35.

Claim 35, which further dependence on Claim 32 is essentially the same as claim 14 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 36.

Claim 36, which further dependence on Claim 32 is essentially the same as claim 15 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 37.

Claim 37, which further dependence on Claim 32 is essentially the same as claim 16 except that it recites "storage medium". It is rejected for the same reason

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(hereinabove)

Claim 38.

Claim 38, which further dependence on Claim 32 is essentially the same as claim 17 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 39.

Claim 39, which further dependence on Claim 31 is essentially the same as claim 18 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 40.

Claim 40, which further dependence on Claim 39 is essentially the same as claim 19 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 41.

Claim 41, which further dependence on Claim 40 is essentially the same as claim 20 except that it recites "storage medium". It is rejected for the same reason (hereinabove)



Claim 42.

Claim 42, which further dependence on Claim 41 is essentially the same as claim 21 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 43.

Claim 43, which further dependence on Claim 42 is essentially the same as claim 22 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

Claim 44.

Claim 44, which further dependence on Claim 31 is essentially the same as claim 23 except that it recites "storage medium". It is rejected for the same reason (hereinabove)

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claims 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pub No: 2003/0033288 to Shanahan et al (hereinafter Shanahan) in view of Pat No 6,192,381 to Stiegemeier et al (hereinafter Stiegemeier).

Claim 11.

Shanahan discloses the elements of claim 1 as above and further it discloses deploying process software for providing said web-based electronic research and presentation functions via a document creation application, said deploying comprising: installing said process software on at least one server [See Shanahan paragraph 0595, 0592]; identifying server addresses for users accessing said process software on said at least one server [server, address, See Shanahan paragraph 0217]; sending said process software to said at least one server and copying said process software to a file system of said at least one server [transmit (send), server, destination file, See Shanahan paragraph 0185, 0152]; sending the process software to at least a first client computer [transit, client, See Shanahan paragraph 0198]; and executing said process software on said first client computer [See Shanahan paragraph 0198].

Shanahan discloses the elements of Claim 11 as disclosed but it does not explicitly disclose "proxy" Stiegemeier discloses the claimed "proxy" which exists

between the Application and various document managers and services [See Stiegemeier Col 8 lines 13-28].

It would have been obvious to one of ordinary skill in the art to have combined the cited references because proxy as disclosed by Stiegemeier would have enabled Shanahan to display complex interrelated data in a manner that does not show its complexity.

Further more “proxy” would have served Shanahan to correct, validate, or enter additional information by retrieving it from another database on a network and thus allow the user to save a “draft document” so that corrections and validation can be made at a later date [Stiegemeier Col 2 lines 1-5, 16-25].

Claim 12.

The combination of Stiegemeier and Shanahan discloses the elements of claim 11 as above and further Stiegemeier discloses installing said process software further comprises:

determining if programs will reside on said at least one server when said process software is executed [compatibility, Stiegemeier Col 16 lines 23-26];

identifying said at least one server that will execute said process software [server, Stiegemeier Col 16 lines 23-27]; and

transferring said process software to storage for said at least one server [transfer, storage, server, Stiegemeier Col 16 lines 60-65] .

Claim 13.

The combination of Stiegemeier and Shanahan discloses the elements of claim 11 as above and further Stiegemeier discloses sending said process software to said first client computer further includes having said at least one server automatically copy said process software to said first client computer, and running an installation program at said first client computer to install said process software on said first client computer [automatically, server, generate, Stiegemeier Col 17 lines 3-7] .

Claim 14.

The combination of Stiegemeier and Shanahan discloses the elements of claim 11 as above and further Shanahan discloses sending said process software to said first client computer further comprises identifying a user and an address of said first client computer[user address, Shanahan paragraph 0226].

Claim 15.

The combination of Stiegemeier and Shanahan discloses the elements of claim 11 as above and further Shanahan discloses sending said process software to said first client computer includes sending said process software to at least one directory on said first client computer [directory, Shanahan paragraph 0225,0422].

Claim 16.

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The combination of Stiegemeier and Shanahan discloses the elements of claim 11 as above and further Shanahan discloses sending said process software to said first client computer includes sending said process software to said first client computer via e-mail [via e-mail, Shanahan paragraph 0455].

6. Claims 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pub No: 2003/0033288 to Shanahan et al (hereinafter Shanahan) and further in view of Pub No 2003/0033253 to Rhodes (hereinafter Rhodes).

Claim 19.

Shanahan discloses the elements of claim 18 as above but it dose not explicitly indicate "usage measurements".

Rhodes discloses the claim "usage measurements" [tracking total usage, See Rhodes paragraph 0028 Fig 3, 4].

It would have been obvious to one of ordinary skill in the art to have combined the cited references because usage measurements as disclosed by Rhodes would have served Shanahan to control potential network congestion due to overload of service provider's network by the heavy users [Rhodes paragraph 0007].

Furthermore usage measurements as disclosed by Rhodes would enable Shanahan to model a usage analysis system and method for the subscriber by defining

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a threshold value. [Rhodes paragraph 0016].

Claim 20.

The combination of Shanahan and Rhodes disclose claim 19 and furthermore

Rhodes discloses:

summing said usage measurements [sum of usage, See Rhodes paragraph 0070 Fig 3, 4];

acquiring at least one multiplicative value associated with said usage measurements and with unit costs [unit of charge per megabyte, multiply, See Rhodes paragraph , 0048, 0065 Fig 3, 4]; and

recording any such acquired multiplicative value as an on demand charge to a requesting customer [charge, subscriber, Rhodes paragraph 0042].

Claim 21.

The combination of Shanahan and Rhodes disclose claim 20 and furthermore

Rhodes discloses:

and sending said on demand charge via e-mail to said requesting customer's e-mail address [electronic mail, Rhodes paragraph 0003].

Claim 22.

The method of claim 20, further comprising charging said on demand charge to said requesting customer's account if an account exists and if said requesting customer

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has selected a charge account payment method [subscriber, account, Rhodes paragraph 0069].

7. Claims 23,24,45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pub No: 2003/0033288 to Shanahan et al (hereinafter Shanahan) and further in view of Pub No 2002/0065849 to Ferguson et al (hereinafter Ferguson).

Claim 23.

Shanahan discloses the elements of claim 1 as disclosed but it does not explicitly indicate "virtual private network". Ferguson discloses the claim invention [Ferguson paragraph 0043].

Ferguson It further discloses:

checking for remote access to said virtual private network when it is required [access remote database over the internet, Ferguson paragraph 0013];

if said remote access does not exist, identifying a third party provider to provide secure, encrypted connections between a private network and remote users [services by third party; encryption, network, Ferguson paragraph 0102, 0125];

identifying said remote users [the client may be required to authenticate its identity Ferguson paragraph 157]; and

setting up a network access server operable for downloading and installing client software on desktop computers for remote access of said virtual private network;

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accessing said process software [install, access ;virtual private network, Ferguson paragraph 0093, 0043];

transporting said process software to at least one remote user's desktop computer [transport, Ferguson paragraph 0087]; and

executing said process software on said at least one remote user's desktop computer [supporting runtime code, desktop, network, Ferguson paragraph 0068].

It would have been obvious to one of ordinary skill in the art to have combined the cited references because “virtual private network” as disclosed by Ferguson would have enabled Shanahan to automatically update data brought into local view over the network as the remote content changes, which otherwise would have remained static. [Ferguson paragraph 0007].

Furthermore Ferguson's disclosure would enable more robust development platform allowing a developer or end user to quickly build and deploy applications that expose network network functionality integrated with productivity application functionality [Ferguson paragraph 0010].

Claim 24.

The combination of Shanahan and Ferguson discloses the elements of claim 23 as disclosed and furthermore Ferguson discloses:

determining if said virtual private network has a site-to-site configuration for providing site-to-site access, and if said virtual private network is not so available, installing



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equipment required to establish a site-to-site configuration for said virtual private network [VPN, remote, site, Ferguson paragraph 0223, 0043];  
installing large scale encryption into said site-to-site virtual private network; and  
accessing said process software through said site-to-site configuration with large scale encryption [encrypt, install, Ferguson paragraph 0125, 0045].

Claim 45.

Ferguson discloses:

determining if said virtual private network has a site-to-site configuration for providing site-to-site access, and if said virtual private network is not so available, installing equipment required to establish a site-to-site configuration for said virtual private network [VPN, remote, site, Ferguson paragraph 0223, 0043];  
installing large scale encryption into said site-to-site virtual private network; and  
accessing said process software through said site-to-site configuration with large-scale encryption [encrypt, install, Ferguson paragraph 0125, 0045];  
wherein said accessing said process software includes at least one of:  
dialing into said network access server; and  
attaching directly via a modem into said network access server, said modem being selected from the group of modems consisting of telephone dial-up modems, cable modems, DSL modems and wireless modems [DSL, Cable modem, 0155 Ferguson paragraph 0155].

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emeka Ebirim whose telephone number is 571-272-3994. The examiner can normally be reached on 8:30pm - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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**KHANH B. PHAM**  
**PRIMARY EXAMINER**



Name: Emeka Ebirim

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